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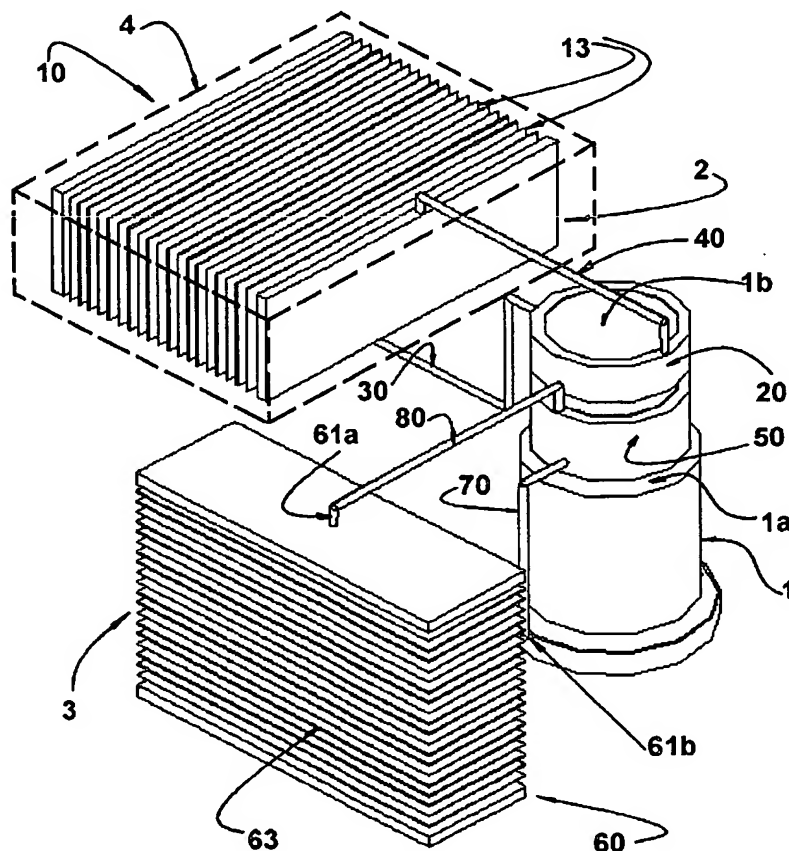
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(54) Title: REFRIGERATION SYSTEM



(57) Abstract: A refrigeration system comprising: a Stirling machine (1); a refrigerating chamber (4); a first thermal energy transfer device (2) operatively associated with a refrigerating portion (1b) of the machine and with the refrigerating chamber (4); a second thermal energy transfer device (3) operatively associated with a heat receiving means, external to said machine, and with the heating portion (1a) thereof, the first thermal energy transfer device (2) comprising: at least one capillary pump (10) mounted in the refrigerating chamber (4) to evaporate, by the heat absorbed from the latter, the circulating fluid received in said capillary pump (10); a condenser (20) operatively coupled to the refrigerating portion (1b) of the Stirling machine (1) to condense the circulating fluid received, in the gaseous state, from the capillary pump (10); and pipes (30, 40) to conduct in a closed loop, the circulating fluid between the capillary pump (10) and the condenser (20).